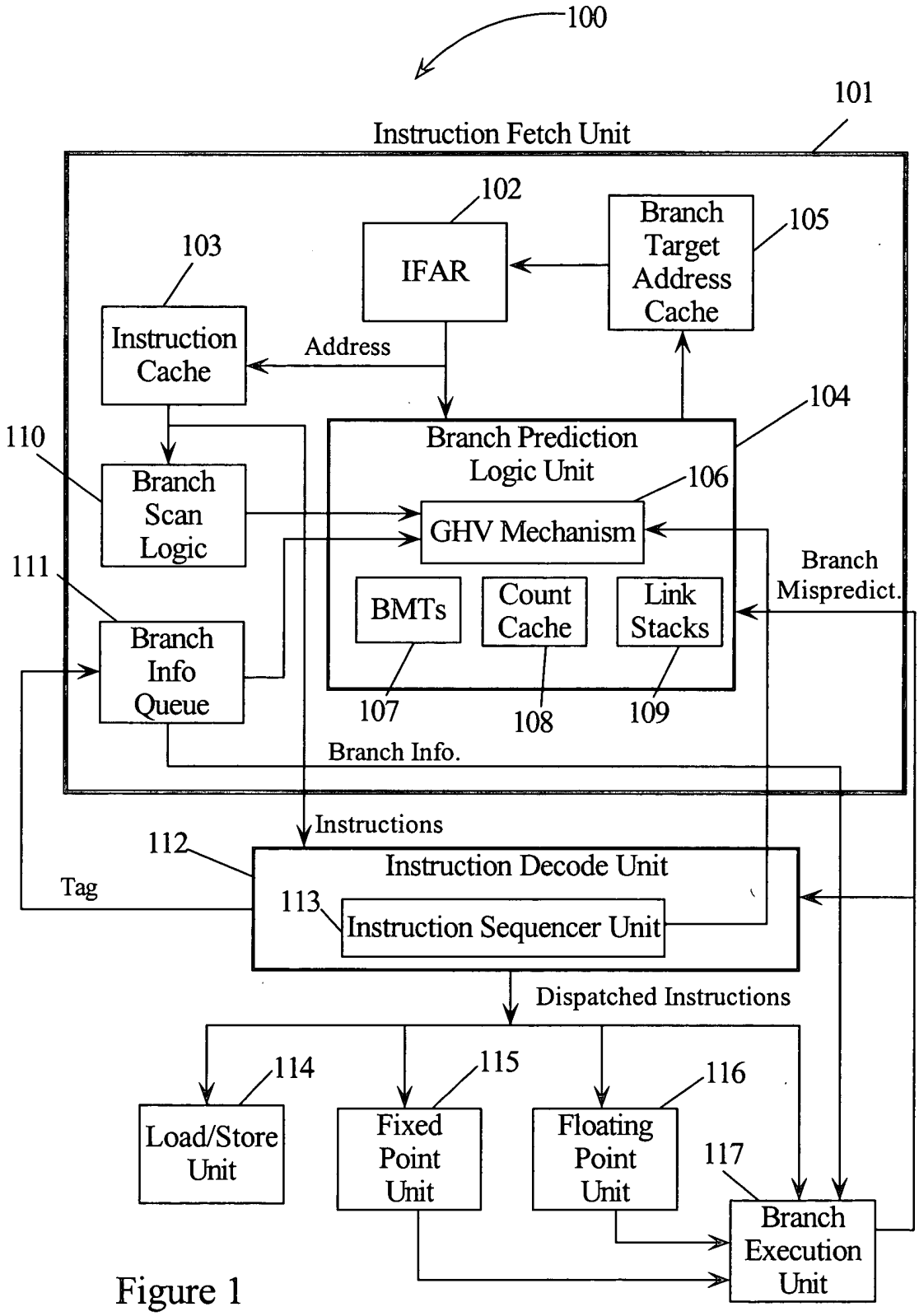

Figure 1

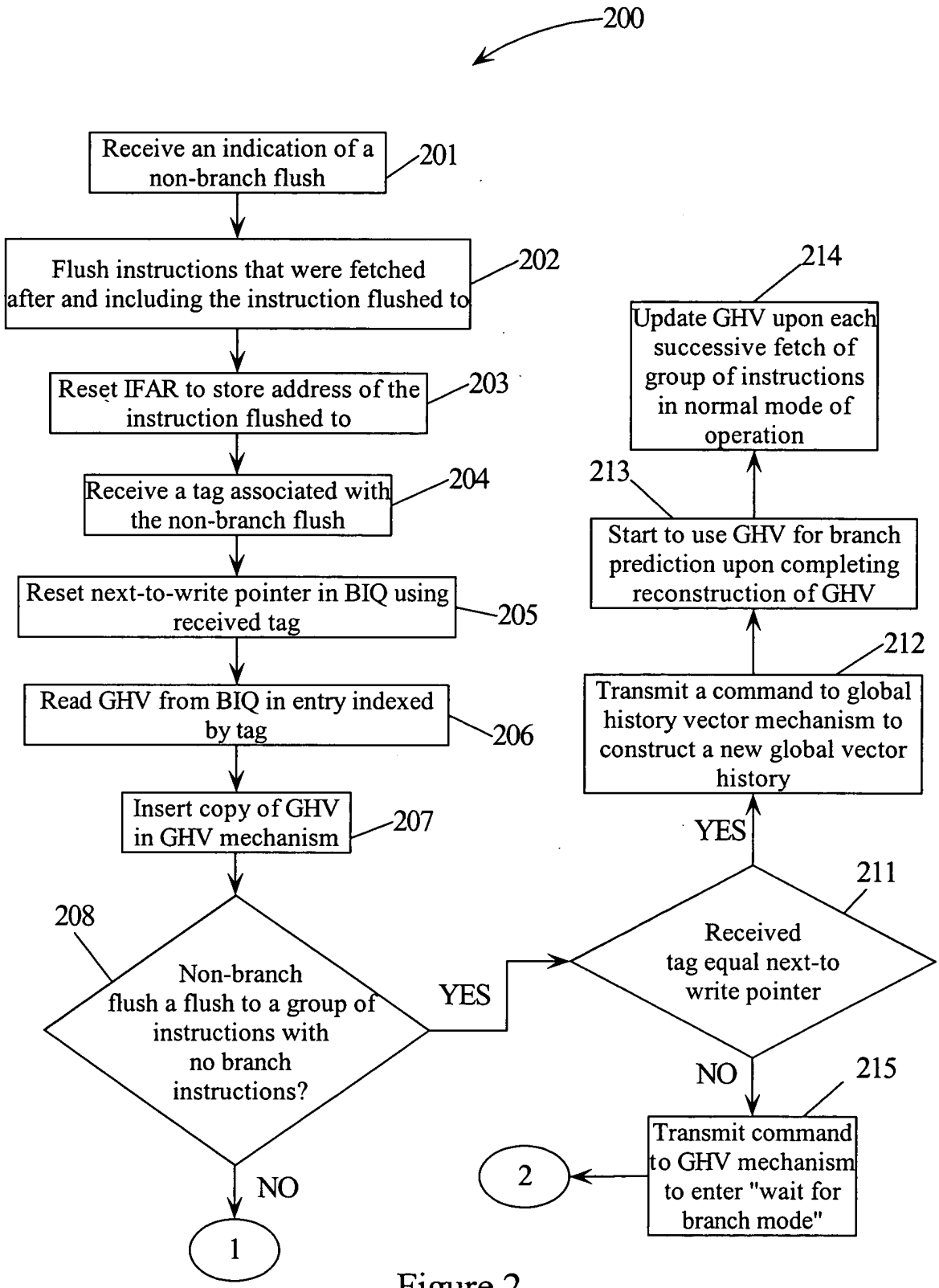
200
Receive an indication of a non-branch flush
201
Flush instructions that were fetched after and including the instruction flushed to
202
Reset IFAR to store address of the instruction flushed to
203
Receive a tag associated with the non-branch flush
204
Reset next-to-write pointer in BIQ using received tag
205
Read GHV from BIQ in entry indexed by tag
206
Insert copy of GHV in GHV mechanism
207
208
Non-branch flush a flush to a group of instructions with no branch instructions?
YES
NO
1
Received tag equal next-to write pointer
211
YES
NO
Transmit a command to global history vector mechanism to construct a new global vector history
212
Start to use GHV for branch prediction upon completing reconstruction of GHV
213
Update GHV upon each successive fetch of group of instructions in normal mode of operation
214
Transmit command to GHV mechanism to enter "wait for branch mode"
215
2

Figure 2

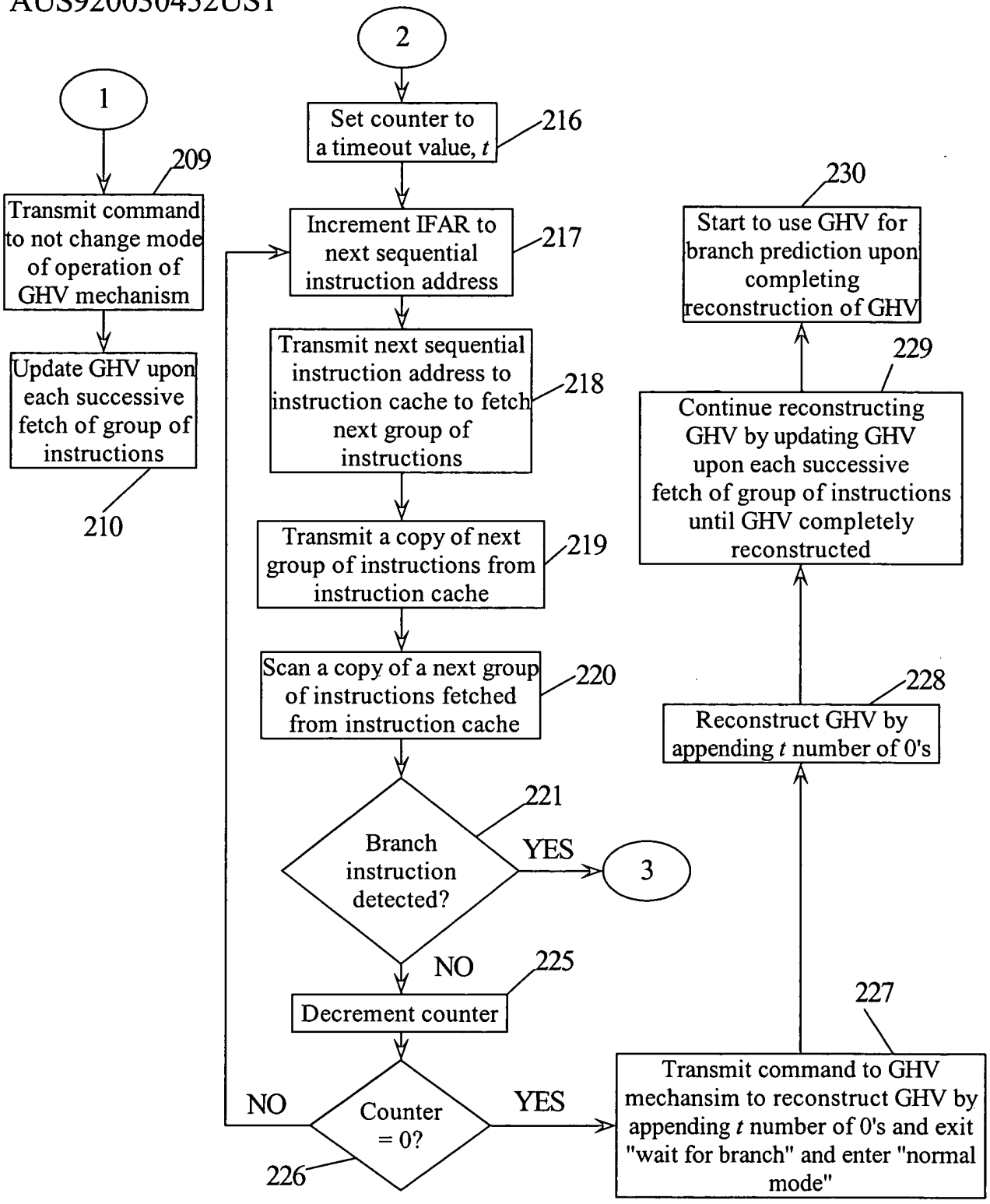

Figure 2 (continued)

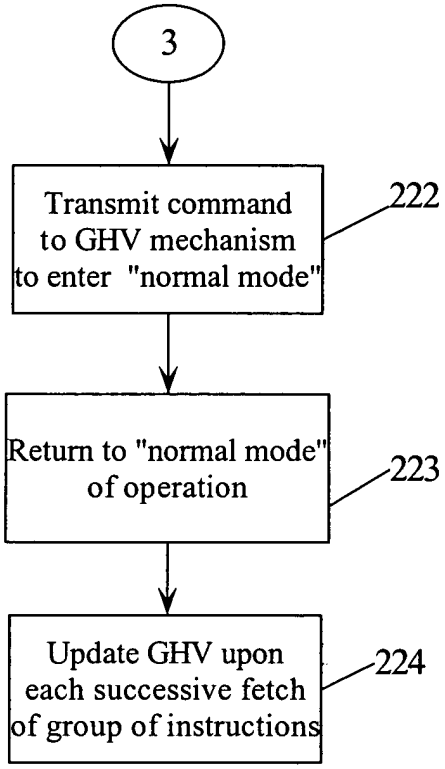

Figure 2 (continued)

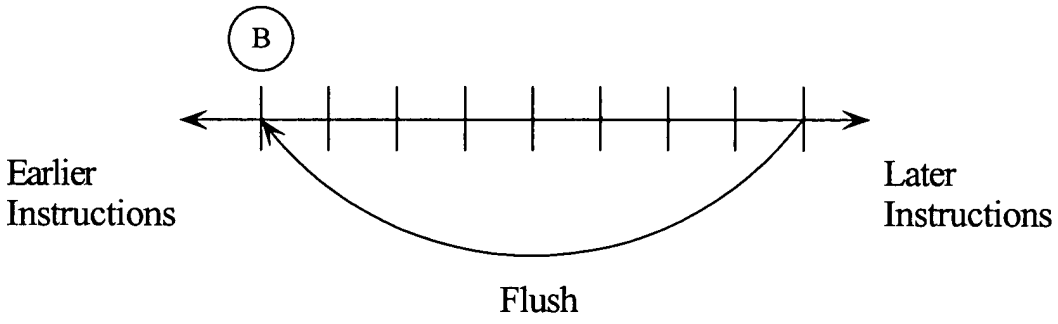

Figure 3

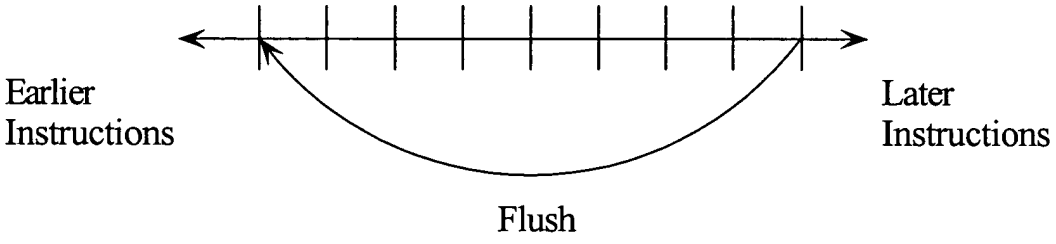

Figure 4

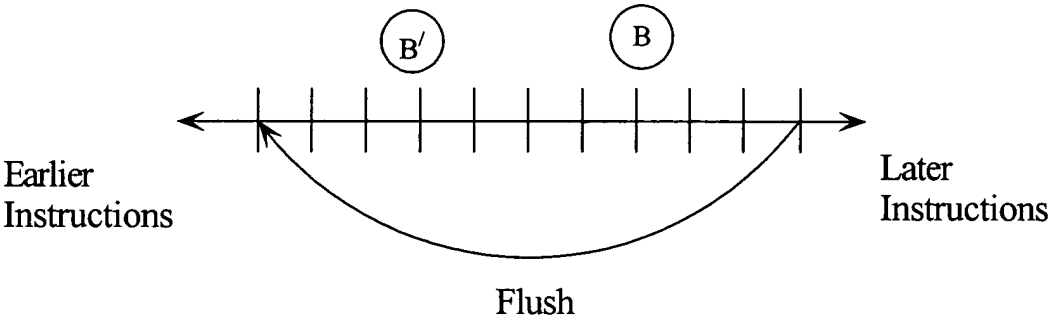

Figure 5